Utah

Science and Engineering Profile

Characteristic	State	U.S.	Rank	Characteristic	State	U.S.	Rank
Doctoral scientists, 1999[1]	4,350	518,670	32	Total R&D performance, 1999 (millions)	$1,474	$231,832	30
Doctoral engineers, 1999[1]	1,150	107,100	27	Industry R&D, 1999 (millions)	$1,123	$177,171	30
S&E doctorates awarded, 2000[1]	272	25,979	28	Academic R&D, 1999 (millions)	$273	$27,038	47
of which, in life sciences	28%	26%		of which, in life sciences	49%	57%	
in engineering	22%	21%		in engineering	22%	15%	
in psychology	17%	14%		in physical sciences	8%	9%	
S&E postdoctorates, 2000[1]				Public higher education current-fund			
in doctorate-granting institutions	321	41,548	28	expenditures, 1997 (millions)	$1,536	$125,236	30
S&E graduate students, 2000[1]				Number of SBIR awards, 1995-2000	268	26,424	23
in doctorate-granting institutions	4,538	435,612	29	Patents issued to state residents, 2000	707	85,068	26
Population, 2000 (thousands)	2,233	285,231	35	Gross state product, 1999 (billions)	$63	$9,369	35
Civilian labor force, 2000 (thousands)	1,104	142,172	35	of which, agriculture	1%	1%	
				manufacturing, mining, construction	22%	22%	
Personal income per capita, 2000	$23,364	$29,451	45	transportation, communication, utilities	9%	8%	
				wholesale and retail trade	17%	16%	
Federal spending				finance, insurance, real estate	16%	19%	
Total expenditures, 2000 (millions)	$10,037	$1,615,468	38	services	21%	21%	
R&D obligations, 1999 (millions)	$305	$73,718	30	government	14%	12%	

NOTE: Rankings and totals are based on data for the 50 States, District of Columbia, and Puerto Rico. Reliability of the estimates of industry R&D and of doctoral scientists and engineers varies by State, because the sample allocation was not based on geography. The rankings do not take into account the margin of error of estimates from sample surveys.

[1]Data on graduate students, doctoral scientists and engineers, and postdoctorates include all graduate degree (except M.D.) candidates and recipients in S&E fields, including health fields. Data on S&E doctorates awarded do not include health fields.

Federal Obligations for Research and Development by Agency and Performer: Fiscal Year 1999

Agency	Performer							
	Total	Federal Intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank, total
	[In thousands of dollars]							
Total, all agencies	305,019	74,129	0	61,297	161,857	3,870	3,866	30
Department of Agriculture	15,977	9,204	0	0	6,663	0	110	36
Department of Commerce	1,931	88	0	1,227	211	405	0	33
Department of Defense	126,497	53,276	0	49,611	22,937	671	2	28
Department of Energy	7,806	0	0	960	6,546	0	300	32
Dept. of Health & Human Services	96,460	1,479	0	5,009	87,070	2,794	108	29
Department of the Interior	10,918	9,632	0	67	1,080	0	139	20
Department of Transportation	3,215	0	0	8	0	0	3,207	34
Environmental Protection Agency	808	0	0	0	808	0	0	37
National Aeronautics and Space Admin	15,846	450	0	3,375	12,021	0	0	27
National Science Foundation	25,561	0	0	1,040	24,521	0	0	25
State rank, total	30	25	na	31	27	38	30	na

NOTE: Federal R&D obligations are as reported by funding agencies. Ranks and totals are based on data for the 50 States, District of Columbia, and Puerto Rico.

KEY: FFRDC = federally funded research and development center; SBIR = small business innovation research; na = not applicable.

SOURCES: Prepared by the National Science Foundation/Division of Science Resources Statistics. Data compiled from numerous sources -- see the section, "Data Sources for Science and Engineering (S&E) State Profiles".